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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/757,688	01/11/2001	Wolfgang Heil	PLOVIN-2A	7991	
23599	7590 01/17/2002				
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.			EXAMINER		
SUITE 1400	NDON BLVD.	CHANNAVAJJALA, LAKSHMI SARADA			
ARLINGTON	N, VA 22201		ART UNIT	PAPER NUMBER	
			1615	 	
			DATE MAILED: 01/17/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
Office Action Summary		09/757,688		HEIL ET AL.				
		Examin r		Art Unit				
		Lakshmi S. C		1615				
Th MAILING DATE of this communication appears on the cov r she t with the correspond nce address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	Responsive to communication(s) filed on <u>06 N</u>	November 200	<u>1</u> .					
2a)⊠	This action is FINAL . 2b) Thi	is action is nor	-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 77-132 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>77-132</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) 🗌	Claim(s) are subject to restriction and/or	r election requ	rement.					
Application	on Papers							
9) 🗌 🗆	he specification is objected to by the Examine	r.						
10)□ 7	he drawing(s) filed on is/are: a)☐ accep	oted or b) obj	ected to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	_	y (PTO-413) Paper No Patent Application (PT	, -			

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DETAILED ACTION.

Receipt of amendment D, dated 11-6-01 is acknowledged.

The following rejection (paper # 11) has been maintained for reasons of record:

Claim Rejections - 35 USC § 112

Claims 77, 86-88, 100-102, 104, 105, 110-114, 116, 122 and 123-132 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 77 recites "first active agent, an estrogen....second active agent, drospirenone.." It is unclear from the claim recitation if the first active agent comprises estrogen and second agent comprises drospirenone or if the composition contains four active agents namely, first active, estrogen, second agent and drospirenone... From the specification it appears that the first active agent comprises estrogen and second agent comprises drospirenone. Accordingly, appropriate correction is requested.

Claim 86 recites "per cycle". It is unclear to the examiner as to which cycle is being referred to. Clarification is requested.

Claims 104 and 105 recite administering estrogen, a combination of estrogen and drospirenone and placebo in various combinations. However, the claim as recited is not clear as to which step comes after which i.e., is estrogen administered before the combination of estrogen and drospirenone or vice-versa. Further, from the claim language (of claims 104 and 105) it is not clear if estradiol administration is followed by a combination of estradiol and drospirenone or if it is a typographical error that the estradiol is repeated twice in the claim. It is suggested that in

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order to make the claim clear, the steps of administration are separated by "followed by". A clarification and appropriate correction is requested.

Claim 110 and 111 are vague because the claim only states "continuously", but does not state how long or at least administered as long as required.

Claim 111 states "sequentially" but does not define the sequence of administering drospirenone.

Claim 112 recites the estrogen dosage is "lower", but does not clearly state how much lower and lower than what.

The term "interrupted manner" in claim 113 is vague, as it is not clear as to how administration is interrupted and interrupted by what.

The "3-day-on-3-day-off cycle" stated in claim 114 is vague as it is not clear as to when the cycle starts and ends. For example, in the beginning or mid-way or towards the end of the cycle.

Claim 116 is indefinite because the claim does not state the length of the "treatment-free interval" during the treatment.

In claim 122, the expression "dosage units are administered for 1 to 12 multiples of 28 days" in claim 105 is vague, as it does not clearly express if the dosage units are in multiples or if a single dose is administered for every 28 days in cycles. A clarification and appropriate correction is requested.

Claims 123-132 refer to a multi-phase composition. While the instant specification describes a multi-phase method of administering the composition, there is no definition of a multi-phase composition. Accordingly, the term is indefinite.

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A clarification and correction is requested.

Regarding claims 86-88, 100-102, 122, 130 and 131, the phrases "such as", "particularly" and "in particular" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

Claims 77-99 are rejected under 35 U.S.C. 102(a) as being anticipated by USPN 5,922,349 to Elliesen et al ('349).

estrogen and a progestogen for the treatment of pre-menopausal and menopausal symptoms (col. 1-3, example 1). The estrogen in their composition comprises estradiol and its esters such as valerate, acetate benzoate, and examples of progestogen (drospirenone) (col. 10, lines 1-38). '349 suggest the claimed daily doses of estrogen and drospirenone (DRSP). '349 teach micronized drospirenone. Although, '349 does not specifically mention the protection of endometrium by DRSP in their composition, they teach the same composition as claimed, including the claimed daily ranges. Therefore, the ability to protect endometrium is inherent to the composition of '349. With respect to claim 82, '349 teach the claimed dosages of DRSP, but does not explicitly state the amount per cycle. However, absent evidence on the contrary, the claimed dosage of DRSP is achieved by the method of '349. '349 also teach oral as well as transdermal administration of the composition. '349 do not specifically mention the amounts of

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drospirenone per cycle. However, absent showing evidence on the contrary, the dosage amount of drospirenone taught by '349 add up to the claimed per cycle amounts.

Claims 77, 81-83, 86-90 and 123-131 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 5,756,490 ('490, cited on IDS).

'490 disclose compositions and multi-phase packs containing a combination of estrogen and progestogen and estrogen alone, for hormonal contraception. Examiner notes that the instant claims are directed to compositions. The amounts of DRSP and estradiol disclosed by '490 read on the claimed amounts (see col. 5, lines 45). '490 do not specifically mention the protection of endometrium by DRSP in their composition, they teach the same composition as claimed, including the claimed daily ranges. Therefore, the ability to protect endometrium is inherent to the composition of '490. 490 clearly teach the claimed daily dosage unite, drug-free intervals, the multi-phase packaging units in col. 3, lines 53 through col. 4, lines 38. '490 do not explicitly state the amount per cycle. However, absent evidence on the contrary, the claimed dosage of DRSP is achieved by the method of '490. '490 also teach oral as well as transdermal administration of the composition.

Claim Rejections - 35 USC § 103

Claims 77-132 are rejected under 35 U.S.C. 103(a) as being unpatentable over 5922349 ('349) by itself or '349 in view of 5,756,490 ('490).

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The teachings of '349 and '490 have been discussed above. '349 do not teach each and every condition or symptom associated to with menopause, premenopause and peri-menopause states. However, '349 teach the combination of estrogen and progestogen for hormone replacement therapy in women, so as to prevent the pre-menopausal or menopausal physiological adverse effects, including hot flushes, breast tenderness, nausea, menstrual disorders etc. While '349 predominantly teach transdermal application, the reference suggest oral administration and the dosages suitable for oral administration (col. 10). With reference to the claim limitation, "a multi-phase composition", see the ABOVE 112 REJECTION. Further, '349 teaches a dispenser with separate compartments for estrogen and progestogen, which can also be interpreted as a multi-phase composition. Thus, a multi-phase composition would have been obvious from the kit of '349 because the separation of estrogen and progestogen in the kit allows for administering the two hormones at different doses and different intervals. Furthermore, '349 suggests administering estrogen and progestogen, continuously or sequentially, with a drug-free interval and at various dosages. Accordingly, it would have been within the scope of a skilled artisan at the time of the instant invention to optimize the dosages of estrogen and progestogen, depending on their use together, in a continuous or with-drug free intervals, with an expectation to provide a hormone replacement therapy to prevent or treat any of the effects of menopause, pre- or postmenopause.

Alternatively, '490 teach the same dosages, durations for administration of multi-phase compositions containing estrogen and progestogen. Although, '490 teach for contraception and not menopause, they suggest that separation of estrogen and progestogen as multi-phase compositions for effective administration of estrogen and progestogen, without undesirable side



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effects. Therefore, it would have been within the scope of a skilled artisan to prepare a multiphase composition for providing an effective the treatment of disorders associated with estrogen and progestogen imbalance, such as menopause or pre-menopause symptoms.

Claims 77-132 are rejected under 35 U.S.C. 103(a) as being unpatentable over by USPN 5,756,490 ('490, cited on IDS) in view of 5922349 ('349) and Uwe-Hollihn (Essentials Hormone replacement therapy and menopause, submitted on IDS).

'349 and '490 discussed above does not explicitly teach protecting endometrium and the amounts required for protecting endometrium. They also fail to teach instant administration method i.e., the frequency and sequence of administering estrogen and DRSP. However, '349 teaches HRT in women during menopausal and post-menopausal periods to prevents symptoms such as bone loss, structural deformation, the symptoms well known in leading to osteoporosis in menopausal and post-menopausal women. '349 also suggest that a combination of DRSP and estradiol prevent the onset of the adverse effects caused by estrogen administration alone.

Accordingly, a skilled artisan at the time of the instant invention would expect that administering DRSP along with estrogen would be able to protect all kinds of adverse effects associated with estrogen treatment, including the effects of estrogen on endometrium.

Further, '349 suggests different regimens in administering the combination of drugs i.e., administering estrogen and DRSP sequentially or together, for different length of time, at different intervals and sequences. Accordingly, optimizing the amounts and steps of administering DRSP and estrogen for HRT would have be within the scope of a skilled because a



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combination of estrogen and DRSP prevents the adverse effects of estrogen in menopausal women undergoing HRT.

Uwe-Hollihn discusses transition periods from pre-menopause to menopause and post-menopause periods, the hormone imbalance at these periods, the effects of estrogen replacement on the endometrium and the symptoms and risks associated with it (see pages 27-68, in particular page 48). Further, the reference teaches combination of progestogens with estrogen to reduce endometrial cancer (pages 105-106) and also suggests different regimens of administering i.e., sequential and cyclical administration. Therefore, it would have been obvious for a skilled artisan at the time of the instant invention that, administering the combination of estrogen and DRSP, as suggested by '349 or '490, to menopause women, maintains the estrogen balance as well as prevents the adverse effects of estrogens, especially, endometrial cancer and endometrial atrophy (Uwe-Hollihn).

Response to Arguments

Examiner notes that applicants have not argued the rejection of claims (see above) made in the previous office action. Accordingly, the rejection is deemed to be proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S. Channavajjala whose telephone number is 703-308-2438. The examiner can normally be reached on 7.30 AM -4.00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 703-308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7924 for regular communications and 703-308-7924 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Lakshmi Channavajjala January 7, 2002

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